PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of Accessible Pedestrian Signals (APS) and Countdown Pedestrian Signals (CPS) at the intersection of MD 6 (E. Charles Street) and Washington Avenue in LaPlata, Charles County. A new mast arm traffic signal structure with LED signal heads has been installed at this location. MD 6 (E. Charles Street) is assumed to run in a east-west direction.

II. INTERSECTION OPERATION

- The intersection operates in a NEMA six-phase, fully-actuated mode, with the MD 6 (E. Charles Street) approaches running concurrently. Exclusive/Permissive left turn phases are provided for both approaches of MD 6 (E. Charles Street). Countdown pedestrian phases with audible pushbutton actuation shall be provided across both legs of MD 6 (E. Charles Street). Countdown pedestrian phases with audible pushbuttons on recall shall be provided across both legs of Washington Avenue. The Washington Avenue approaches shall operate concurrently.
- 2. A fully—actuated—traffic, eight—phase controller with 4" LB, video interface, 2—wire_Control Unit, and all necessary equipments housed in a NEMA size "5" pole-mounted cabinet are installed at this intersection.
- SHA signal shop shall install APS central control unit into controller cabinet. The Contractor shall deliver the central control unit and audible pushbuttons to the SHA Signal Shop for testing and programming,

III. SPECIAL NOTES

- 1. The Contractor shall be responsible for terminating all signal cables. to the appropriate terminals and shall properly label each cable.
- 2. All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer(at (410) 787-7650 seventy-two hours in advance of intended work.
- Upon completion of this project, the Contractor shall notify Mr. Robert Snyder at (410) 787–7631 to arrange for the phone line installation. The Contractor is to provide Mr. Robert Snyder with the nearest street address, zip code and phone number.

4. APS will function as follows:

- TO CROSS MD 6 (E. CHARLES STREET) EAST LEG
- When pedestrian locates and presses the pushbutton for an extended time, the pushbutton unit will announce the following message: "Wait to cross East Charles at Washington, Wait.
- b. When the WALK phase begins, the pushbutton unit will provide the following message: "East Charles; Walk sign is on to cross East Charles:"

TO CROSS MD 6 (E, CHARLES STREET) WEST LEG

- When pedestrian locates and presses the pushbutton for an extended time; the pushbutton unit will announce the following message: "Wait to cross East Charles at Washington, Crosswalk angles left; Wait."
- b. When the WALK phase begins; the pushbutton unit will provide the following message: "East Charles, Walk sign is on to cross East Charles: Crosswalk angles left."

TO CROSS WASHINGTON AVENUE (NORTH & SOUTH LEGS)

- When pedestrian locates and presses the pushbutton for an extended time, the pushbutton unit will announce the following message "Wait to cross Washington at East Charles, Wait.
- When the WALK phase begins, the pushbutton unit will provide the following message: "Washington, Walk sign is on to cross Washington,"

The contact persons for District #5 and SHA are as follows:

Ms. Kim Tran Assistant District Engineer - Traffic Phone: (410) 841-1019

Mr. Joe Geckle Assistant District Engineer - Maintenance Phone: (410) 841-1013

Mr. Mike Huber District Utility Engineer Phone: (410) 841-1039

Ms. Corren Johnson Chief, Traffic Operations Division Phone: (410) 787-7630

Mr. Robert Snyder Assistant Chief, Traffic Operations Division Phone: (410) 787-7630

Mr. Ed Rodenhizer Manager, Signal Operations Section (410) 787-7652

Manager, Sign Shop Operations (410) 787-7676

Power company representative:

Mr. Charile Hurbert SMECO - Charles County Phone: (301) 645 3636 ext. 8470 EQUIPMENT LISTS

None

A. EQUIPMENT TO BE SUPPLIED BY THE SHA QUANTITY UNITS CAT. CODE NO. DESCRIPTION

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

CAT. CODÉ NO	. DESCRIPTION	QUANTITY	UNIT:
865001	Audible/tactile pedestrian pushbutton station & signs.	8	EA.
818004	Breakaway pedestal pole (10′)	7	EA.
860286	LED 16" countdown pedestrian signal heads.	8	EA.
813014	Install overhead or ground mounted sign.	39	. S.F.
861105	Electrical cable - 2 conductor (No. 14 AWG).	860	L.F.
861107	Electrical cable - 5 conductor (No. 14 AWG).	880	L.F.
803016	Remove existing pedestrian pole with attached sign(s), signal head and foundation 12" below grade	3	EA.

C. EQUIPMENT TO BE REMOVED

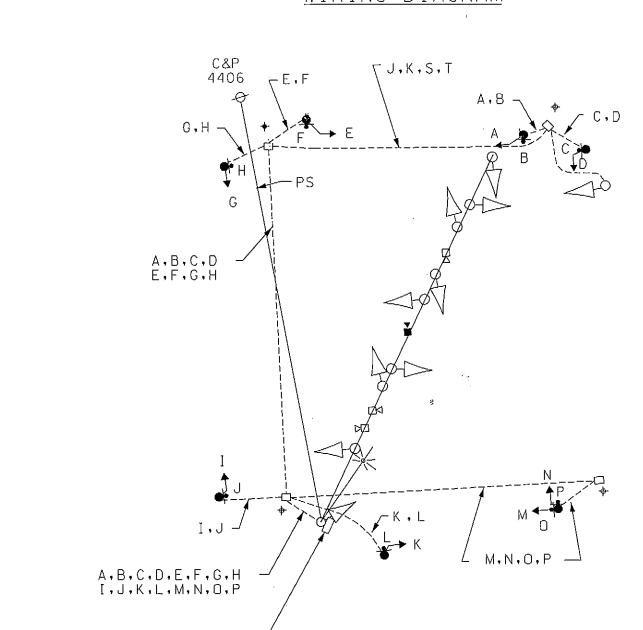
All material removed shall become the property of the contractor.

10 11 12 13 14 15 16 17 18 DW DW DW DW PHASE 1 & 5 CHANGES TO PHASES 1 & 6, 2 & 5 OR 2 & 6 **←**G-/G DW D₩ DW DW DW

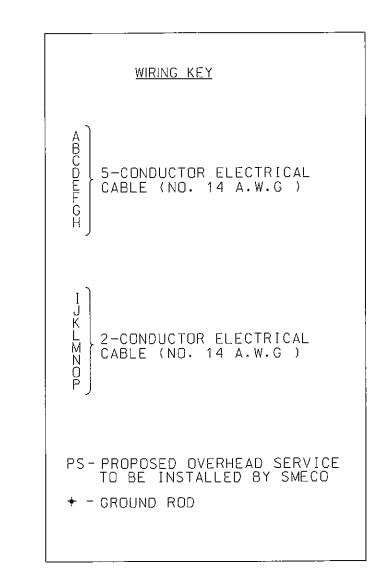
PHASE CHART

PHASE 1 & 6 1 & 6 CHANGE PHASE 2 & 5 2 & 5 CHANGE PHASE 2 & 6 WK WK WK DW DW DW PED CLEAR / COUNTDOWN DW DW 2 & 6 CHANGE DW DW PHASE 4 & 8 4 & 8 CHANGE DW D₩ D₩ DW DW PHASE 4 & 8 ALT DW PED CLEAR / COUNTDOWN DW DW DW FL/DW FL/DW FL/DW FL/DW 4 & 8 ALT CHANGE FLASHING FL/Y | FL/Y | FL/Y | FL/Y | FL/Y | FL/Y | FL/R | FL/R | FL/R | DARK | DA OPERATION

WIRING DIAGRAM



- A,B,C,D,E,F,G,H I,J,K,L,M,N,O,P



STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION

MD 6 (E. CHARLES ST.) AND WASHINGTON AVENUE

LAPLATA, MARYLAND

GENERAL INFORMATION SHEET SCALE NONE DATE 04-15-13 CONTRACT NO. CH234B51 DESIGNED BY M. KABENGELE COUNTY CHARLES DRAWN BY _____ M. KABENGELE LOGMILE ____08000625.47 CHECKED BY ____ D. DICKERSON ___ TIMS NO. ___ L142__ F.A.P. NO._____ TOD NO. ___ TS NO. 1035E DRAWING NO. 2 OF 2 SHEET NO. OF

PLOTTED: FRIDAY. APRIL 26, 2013 AT 10:33 AM FILE: J:\DATA\L142\DESIGN FILES\REV UNDER AT066B25\L142 GIS.DGN